## **IN THE CLAIMS**

1. (currently amended): A liquid crystal display with an integrated color filter, comprising:

an active matrix substrate with a plurality of switching elements;

an insulating layer formed on the active matrix substrate;

a double-organic layer formed on the insulating layer;

a plurality of pixel electrodes formed on the double-organic layer, and electrically connected to the respective switching elements via a plurality of respective contact holes;

a substrate positioned a predetermined distance above the active matrix substrate; and

a liquid crystal layer between the two substrates;

wherein the double-organic layer comprises a plurality of color-filter units and a transparent organic layer, and the thickness of the color-filter units is approximately 1.0 µm, thereby reducing parasitic capacitance of the liquid crystal display without sacrificing light transmission.

- 2. (canceled)
- 3. (currently amended): The liquid crystal display with an integrated color filter as claimed in claim [[2]] 1, wherein the color-filter units layer is formed above the transparent organic layer.
- 4. (currently amended): The liquid crystal display with an integrated color filter as claimed in claim [[2]] 1, wherein the transparent organic layer is formed above the color-filter units layer.

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- 5. (currently amended): The liquid crystal display with an integrated color filter as claimed in claim [[2]] 1, wherein the transparent organic layer is formed of polycarbonate or acrylic-resin.
- 6. (currently amended): The liquid crystal display with an integrated color filter as claimed in claim [[2]] 1, wherein the light transmission of the transparent organic layer is above 90%.
- 7. (currently amended): The liquid crystal display with an integrated color filter as claimed in claim [[2]] 1, wherein the dielectric constant of the transparent organic layer is 2.6-3.6.
- 8. (currently amended): The liquid crystal display with an integrated color filter as claimed in claim [[2]]  $\underline{1}$ , wherein the thickness of the transparent organic layer is 1.5-3.5 $\mu$ m.
- 9. (currently amended): The liquid crystal display with an integrated color filter as claimed in claim [[2]] 1, wherein the dielectric constant of the color-filter units is 3.5-5.0.
  - 10. (canceled)
- 11. (currently amended): The liquid crystal display with an integrated color filter as claimed in claim [[2]] 1, wherein the color-filter units includes red, green and blue units.
- 12. (original): The liquid crystal display with an integrated color filter as claimed in claim 1, wherein the pixel electrodes are made of indium tin oxide.

- 13. (original): The liquid crystal display with an integrated color filter as claimed in claim 1, wherein the contact holes pass through the insulating layer and the double-organic layer.
  - 14. (currently amended): An integrated color filter, comprising:
  - a substrate;
  - a plurality of switching elements formed on the substrate in a matrix arrangement;
  - an insulating layer formed on the switching elements;
  - a transparent organic layer formed above the insulating layer;
  - a plurality of color-filter units formed above the transparent organic layer; and
- a plurality of pixel electrodes formed above the color-filter units, and electrically connected to the respective switching elements via a plurality of respective contact holes, wherein the contact holes pass through the transparent organic layer, color-filter units and the insulating layer;

wherein the thickness of the color-filter units is approximately 1.0 µm, thereby reducing parasitic capacitance of the liquid crystal display without sacrificing light transmission.

- 15. (currently amended): An integrated color filter, comprising:
- a substrate;
- a plurality of switching elements formed on the substrate in a matrix arrangement;
- an insulating layer formed on the switching elements;
- a plurality of color-filter units formed above the insulating layer;
- a transparent organic layer formed above the color-filter units; and
- a plurality of pixel electrodes formed above the color-filter units, and electrically connected to the respective switching elements via a plurality of respective contact holes,

wherein the contact holes pass through the transparent organic layer, color-filter units and the insulating layer;

wherein the thickness of the color-filter units is approximately 1.0 μm, thereby reducing parasitic capacitance of the liquid crystal display without sacrificing light transmission.

16. (currently amended): A method of fabricating an integrated color filter, comprising: providing a substrate;

forming a plurality of switching elements on the substrate in a matrix arrangement; forming an insulating layer on the switching elements;

forming a transparent organic layer on the switching elements, wherein the transparent organic layer has a first hole exposing a part of the surface of the insulating layer;

etching the insulating layer by using the transparent organic layer as an etching mask to form a second hole in the insulating layer, wherein the second hole joins the first hole and exposes a part of the surface of the switching elements;

forming a plurality of color-filter units with a third hole on the transparent organic layer, wherein the third hole forms a contact hole together with the first and the second holes to expose the part of the surface of the switching elements; and

forming a plurality of pixel electrodes on the color-filter units, wherein the pixel electrodes are electrically connected with the switching elements via the contact hole;

wherein the thickness of the color-filter units is approximately 1.0 µm, thereby reducing parasitic capacitance of the liquid crystal display without sacrificing light transmission.

17. (original): The method of fabricating an integrated color filter as claimed in claim 16, wherein the transparent organic layer is made of polycarbonate or acrylic-resin.

- 18. (original): The method of fabricating an integrated color filter as claimed in claim 16, wherein the light transmission of the transparent organic layer is above 90%.
- 19. (original): The method of fabricating an integrated color filter as claimed in claim 16, wherein the dielectric constant of the transparent organic layer is 2.6-3.6.
- 20. (original): The method of fabricating an integrated color filter as claimed in claim 16, wherein the thickness of the transparent organic layer is 1.5- $3.5\mu m$ .
- 21. (original): The method of fabricating an integrated color filter as claimed in claim 16, wherein the dielectric constant of the color-filter units is 3.5-5.0.
  - 22. (canceled)
- 23. (original): The method of fabricating an integrated color filter as claimed in claim 16, wherein the color-filter units includes red, green and blue units.
- 24. (original): The method of fabricating an integrated color filter as claimed in claim 16, wherein the pixel electrodes are made of indium tin oxide.
  - 25. (currently amended): A method of fabricating an integrated color filter, comprising: providing a substrate;

forming a plurality of switching elements on the substrate in a matrix arrangement; forming an insulating layer on the switching elements;

forming a plurality of color-filter units with a first hole on the insulating layer;

forming a transparent organic layer on the color-filter units, having a second hole to expose the first hole;

etching the insulating layer by using the transparent organic layer as a mask, forming a third hole in the insulating layer to expose a part of the surface of the switching elements, wherein the third hole forms a contact hole together with the first and the second holes; and

forming a plurality of pixel electrodes on the transparent organic layer, wherein the pixel electrodes are electrically connected with the switching elements via the contact hole;

wherein the double-organic layer comprises a plurality of color-filter units and a transparent organic layer, and the thickness of the color-filter units is approximately 1.0 μm, thereby reducing parasitic capacitance of the liquid crystal display without sacrificing light transmission.

- 26. (original): The method of fabricating an integrated color filter as claimed in claim 25, wherein the transparent organic layer is made of polycarbonate or acrylic-resin.
- 27. (original): The method of fabricating an integrated color filter as claimed in claim 25, wherein the light transmission of the transparent organic layer is above 90%.
- 28. (original): The method of fabricating an integrated color filter as claimed in claim 25, wherein the dielectric constant of the transparent organic layer is 2.6-3.6.
- 29. (original): The method of fabricating an integrated color filter as claimed in claim 25, wherein the thickness of the transparent organic layer is 1.5-3.5μm.

- 30. (original): The method of fabricating an integrated color filter as claimed in claim 25, wherein the dielectric constant of the color-filter units is 3.5-5.0.
  - 31. (canceled)
- 32. (original): The method of fabricating an integrated color filter as claimed in claim 25, wherein the color-filter units includes red, green and blue units.
- 33. (original): The method of fabricating an integrated color filter as claimed in claim 25, wherein the pixel electrodes are made of indium tin oxide.
- 34 (new): The liquid crystal display with an integrated color filter as claimed in claim 1, wherein the thickness of the color-filter units is less than 1.2  $\mu m$ .
- 35 (new): The method of fabricating an integrated color filter as claimed in claim 16, wherein the thickness of the color-filter units is less than 1.2  $\mu m$ .